

**ABSTRACT**

A method and system of operating a remote terminal by a terminal server caches representation data of glyphs to be displayed on the remote terminal to reduce the amount of glyph data that have to be transmitted to the remote terminal through a network connection. The glyph caching is performed on a level of text fragments each of which includes a plurality of glyphs. The remote terminal stores a fragment cache for caching fragments and glyph caches for caching individual glyphs. Each entry in the fragment cache contains data indicating where the glyph data for the glyphs of the fragment are stored in the glyph caches. When the terminal server receives a request to display a text fragment on the remote terminal, it checks whether that fragment is cached at the remote terminal. If so, the terminal server sends a fragment index to the client identifying the entry in the fragment cache for that fragment. The terminal client retrieves the information in the fragment cache entry and then retrieves the glyph data for the glyphs of the fragment from the glyph cache, and displays them on the remote terminal.